

**From:** [Sivak, Michael](#)  
**To:** [Mishkin, Katherine](#)  
**Subject:** RE: rolling knolls question  
**Date:** Wednesday, June 03, 2015 11:48:00 AM

---

Katie,

Sorry about not replying earlier.

I believe we typically delineate to ARARs, as you said, then select PRGs based on the most sensitive of the HH, eco, and IGW levels. Default numbers can be used, or they can be refined to a site-specific value. For example, if a COPC is found in soil above a default IGW number but we are not seeing it in the GW, we may want to develop something site-specific...the organic carbon content in this swampy soil may bind certain forms of metals so that they are not available to leach.

Is that helpful?

Michael Sivak  
212.637.4310

---

**From:** Mishkin, Katherine  
**Sent:** Wednesday, June 03, 2015 11:19 AM  
**To:** Sivak, Michael  
**Subject:** FW: rolling knolls question

Hey Michael – I'm not sure if you had a chance to look at my question below, but I'm heading out to Edison around 12:30 today. If you have a chance to look at this, please let me know. Thanks!

Katie

---

Katherine Ryan Mishkin  
Geologist  
Superfund Technical Support Section  
U.S. EPA Region 2  
290 Broadway, 18th Floor  
New York, NY 10007  
(p) 212-637-4449  
(f) 212-637-4439

---

**From:** Mishkin, Katherine  
**Sent:** Monday, June 01, 2015 2:24 PM  
**To:** Sivak, Michael  
**Subject:** rolling knolls question

Hi Michael –

I have a question about Rolling Knolls and delineation criteria. Well really, the state had the question on the call and I wanted to make sure my explanation was accurate for when we meet in person. NJDEP was saying we have to delineate soil to the lowest criteria, which would be impact to groundwater numbers. We are currently delineating soil to the residential direct contact values and the sediment to the ecological criteria because those are risk-based numbers, right? Its my understanding we delineate to ARARs and then we can select remediation goals during the FS or ROD that may be stricter and could potentially be impact to groundwater numbers. The IGW numbers in New Jersey are default numbers, which are indirectly risk-based since they are calculated by the groundwater MCL, which I presume is risk-based. However, our ARARs are more

directly risk-based. This is my understanding and what I briefly explained on the phone, but said we would verify for Wednesday's meeting. If you have any more insight on this, it would be greatly appreciated!

Thank you!

Katie

---

Katherine Ryan Mishkin

Geologist

Superfund Technical Support Section

U.S. EPA Region 2

290 Broadway, 18th Floor

New York, NY 10007

(p) 212-637-4449

(f) 212-637-4439